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| **Test/Interval** | **Conditions** | **Standard Deviation/Error** | **Equation** |
| 1 Proportion z-interval | 1. SRS 2. Pop >10*n* |  |  |
| 1. Proportion z-test | 1- SRS  2-  3- Pop >10*n* |  | Ho: p = %  Ha: p <, >, ≠% |
| 2 Proportion z-interval | 1. 2 independent SRS   >10   1. Pop1 > 10n1   Pop2 > 10n2 |  |  |
| 1. Proportion z-test | 1. 2 independent SRS   >10   1. Pop1 > 10n1   Pop2 > 10n2 |  | Ho: p1 = p2  Ha: p1 <, >, ≠ p2  Z = |
| 1. Sample t-interval | 1. SRS 2. Pop >10*n* 3. Normal population   Or n > 30 |  |  |
| 1. Sample t-test | 1. SRS 2. Pop >10*n* 3. Normal population   Or n > 30 |  | Ho: µ = #  Ha: µ >, <, ≠ # |
| 1. Sample t-interval | 1. 2 independent SRS 2. Pop1 >10*n*1   Pop2 >10*n*2   1. 2 Normal populations   Or n1 and n2 > 30 |  |  |
| 1. Sample t-test | 1. 2 independent SRS 2. Pop1 >10*n*1   Pop2 >10*n*2   1. 2 Normal populations   Or n1 and n2 > 30 |  | Ho: µ1 = µ2 |
| Paired t-interval | 1. Paired Data 2. SRS 3. Pop of diff. >10*n*d 4. Normal pop of diff.   Or nd > 30 |  |  |
| Paired t-test | 1. Paired Data 2. SRS 3. Pop of diff. >10*n*d 4. Normal pop of diff.   Or nd > 30 |  | Ho: µd = 0 |
| Chi-Square test | 1. Categorical data 2. SRS 3. All expected counts > 5 | NONE |  |
| Test for Linear Regression | 1. SRS 2. Linear data 3. Independence 4. Normal residuals 5. Equal variance | SEb | Ho: β = 0 |